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Listing of Claims:

- 1. (currently amended) A process for producing precipitated calcium carbonate, comprising the steps of:
 - (a) providing calcium hydroxide; and
 - (b) carbonating the calcium hydroxide with carbon dioxide gas and simultaneously comminuting for a time sufficient to produce a calcium carbonate having at least about a 90 weight percent conversion to calcium carbonate and having a solids concentration of at least about [[90]] 92 weight percent.

2. (canceled)

- 3. (original) The process according to claim 2, wherein the calcium hydroxide provided is about 92 weight percent solids.
- 4. (currently amended) The process for producing precipitated calcium carbonate according to claim 1, wherein the calcium hydroxide provided in step (a) is produced by the steps comprising:
 - i) mixing calcium oxide and water in amounts sufficient to react to form calcium hydroxide substantially free of water; and
 - ii) maintaining the mixture at an elevated temperature for a time sufficient to hydrate the calcium oxide to form calcium hydroxide having at least about [[90]] 92 weight percent solids and water present in an amount of up to about 10 weight percent.
 - 5. (original) The process according to claim 4, wherein the step of maintaining the mixture at an elevated temperature is performed at a temperature of up to about 600 degrees Fahrenheit for a time sufficient to hydrate the calcium oxide to form calcium hydroxide having at least about a 95 weight percent conversion to calcium hydroxide.

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- 6. (original) The process according to claim 5, wherein the step of maintaining the mixture at an elevated temperature is performed for a time sufficient to hydrate the calcium oxide to form calcium hydroxide having at least about a 98 weight percent conversion to calcium hydroxide.
- (currently amended) The process according to claim 1, wherein the steps of carbonating and simultaneously comminuting are performed until at least a 95 weight percent conversion to calcium carbonate is achieved.
- 8. (currently amended) The process according to claim 1, wherein the steps of carbonating and simultaneously comminuting are performed until at least a 97 weight percent conversion to calcium carbonate is achieved.
- (currently amended) A process for producing precipitated calcium carbonate, comprising the steps of:
 - (a) providing calcium hydroxide;
 - (b) carbonating the calcium hydroxide with carbon dioxide gas for a time sufficient to at least partially convert the calcium hydroxide to calcium carbonate;
 - (c) comminuting the at least partially converted calcium hydroxide; and
 - (d) sequentially repeating alternating steps of carbonating and comminuting for a time sufficient to substantially convert the calcium hydroxide to calcium carbonate having at least about a 90 weight percent conversion to calcium carbonate and having a solids concentration of at least about [[90]] 92 weight percent.

10. (canceled)

- 11. (original) The process according to claim 10, wherein the calcium hydroxide provided is about 92 weight percent solids.
- 12. (currently amended) The process for producing precipitated calcium carbonate according to

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claim 9, wherein the calcium hydroxide provided in step (a) is produced by the steps comprising:

- i) mixing calcium oxide and water in amounts sufficient to react to form calcium hydroxide substantially free of water; and
- ii) maintaining the mixture at an elevated temperature for a time sufficient to hydrate the calcium oxide to form calcium hydroxide having at least about [[90]] <u>92</u> weight percent solids and water present in an amount of up to about 10 weight percent.
- 13. (original) The process according to claim 12, wherein the step of maintaining the mixture at an elevated temperature is performed at a temperature of up to about 600 degrees Fahrenheit for a time sufficient to hydrate the calcium oxide to form calcium hydroxide having at least about a 95 weight percent conversion to calcium hydroxide.
- 14. (original) The process according to claim 13, wherein the step of maintaining the mixture at an elevated temperature is performed for a time sufficient to hydrate the calcium oxide to form calcium hydroxide having at least about a 98 weight percent conversion to calcium hydroxide.
- 15. (original) The process according to claim 9, wherein the steps of carbonating and comminuting are performed until at least a 95 weight percent conversion to calcium carbonate is achieved.
- 16. (original) The process according to claim 15, wherein the steps of carbonating and comminuting are performed until at least a 97 weight percent conversion to calcium carbonate is achieved.
- 17. (canceled)
- 18. (canceled)
- 19. (canceled)

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20. (canceled)